

La multiplication : **techniques.**• **x 5 x 50 x 500**

$$n \times 5 = (n \times 10) : 2$$

$$638 \times 5 = \overset{6380}{(638 \times 10)} : 2 = 3190$$

$$44,5 \times 5 = \overset{445}{(44,5 \times 10)} : 2 = 222,5$$

$$0,86 \times 5 = \overset{86}{(0,86 \times 10)} : 2 = 4,3$$

$$n \times 50 = (n \times 100) : 2$$

$$356 \times 50 = \overset{35600}{(356 \times 100)} : 2 = 17800$$

$$34,5 \times 50 = 3450 : 2 = 1725$$

$$0,75 \times 50 = 75 : 2 = 37,5$$

$$n \times 500 = (n \times 1000) : 2$$

$$68 \times 500 = 68000 : 2 = 34000$$

$$32,6 \times 500 = 32600 : 2 = 16300$$

$$0,69 \times 500 = 690 : 2 = 345$$

• **x 9 x 99 x 999**

$$n \times 9 = (n \times 10) - n$$

$$46 \times 9 = \overset{460}{(46 \times 10)} - 46 = 414$$

$$2,6 \times 9 = \overset{26}{(2,6 \times 10)} - 2,6 = 23,4$$

$$n \times 99 = (n \times 100) - n$$

$$436 \times 99 = \overset{43600}{(436 \times 100)} - 436 = 43164$$

$$6,3 \times 99 = 630 - 6,3 = 623,7$$

$$n \times 999 = (n \times 1000) - n$$

$$31 \times 999 = 31000 - 31 = 30969$$

$$8,2 \times 999 = 8200 - 8,2 = 8191,8$$

- $n \times 11$   $n \times 101$   $n \times 1\,001$

$$n \times 11 = (n \times 10) + n$$

$236 \times 11 = \dots\dots\dots$

$45,6 \times 11 = \dots\dots\dots$

$$n \times 101 = (n \times 100) + n$$

$502 \times 101 = \dots\dots\dots$

$24,3 \times 101 = \dots\dots\dots$

$$n \times 1\,001 = (n \times 1\,000) + n$$

$712 \times 1\,001 = \dots\dots\dots$

$12,12 \times 1\,001 = \dots\dots\dots$

Et bien d'autres ...

- $n \times 4$   $n \times 6$   $n \times 8$   $n \times 12$   $n \times 15$   $n \times 20$   $n \times 21$  - ...

$n \times 4 \rightarrow n \times 2 \times 2 \qquad 17 \times 4 = \dots\dots\dots$

$n \times 6 \rightarrow n \times 3 \times 2 \qquad 21 \times 6 = \dots\dots\dots$

$n \times 8 \rightarrow n \times 2 \times 2 \times 2 \qquad 24 \times 8 = \dots\dots\dots$

$\frac{n \times 12}{12} \rightarrow (n \times 10) + (n \times 2) \qquad 31 \times 12 = \dots\dots\dots$

$\frac{n \times 15}{15} \rightarrow (n \times 10) + \left(\frac{n \times 10}{2}\right) \qquad 23 \times 15 = \dots\dots\dots$

$\frac{n \times 20}{20} \rightarrow n \times 10 \times 2 \qquad 87 \times 20 = \dots\dots\dots$

$\frac{n \times 21}{21} \rightarrow (n \times 20) + n \qquad 87 \times 21 = \dots\dots\dots$